

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 July 2005 (21.07.2005)

PCT

(10) International Publication Number
WO 2005/066873 A2

- (51) International Patent Classification⁷: **G06F 21/00**
- (21) International Application Number:
PCT/GB2004/005459
- (22) International Filing Date:
30 December 2004 (30.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0400148.3 6 January 2004 (06.01.2004) GB
- (71) Applicant (for all designated States except US): **CALICO JACK LIMITED** [GB/GB]; Argyll House, Marketgait, Dundee DD1 1QP (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **REED, Chris, Anthony** [GB/GB]; c/o Calico Jack Limited, Argyll House, Marketgait, Dundee DD1 1QP (GB). **MOYNIHAN, Richard** [GB/GB]; c/o Calico Jack Limited, Argyll House, Marketgait, Dundee DD1 1QP (GB). **BOSWELL, Brian** [GB/GB]; c/o Calico Jack Limited, Argyll House, Marketgait, Dundee DD1 1QP (GB).
- (74) Agent: **KENNEDYS PATENT AGENCY LIMITED**; Floor 5, Queens House, 29 St. Vincent Place, Glasgow G1 2DT (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/066873 A2

- (54) Title: DYNAMIC MODULARITY IN FLEXIBLE, PERSISTENT AGENTS

(57) **Abstract:** Apparatus and method for the dynamic deployment of functionality in software agents. The agent which represents a person's identity, is adapted to dock with a dockable module which includes a method means for performing a function. The agent also has an intermodule communication means for mapping a request from a requesting module to the method means in the dockable module. The invention provides efficient dynamic changes of modules in an agent and the capability to decouple modules in such a way that both data exchange and method calls can be executed without prior knowledge of anticipated functionality.